

**Listing of Claims:**

1. (Currently Amended) An optical switch comprising:

optical-path switching elements for switching one optical path to another optical path to allow one light beam for optical communication emitted from one of at least one input optical

5 fiber used for inputting beams, to be incident on one of at least one output optical fiber from which beams are outputted;

a photo-sensor which comprises a four-divided photodetector light receiving surface;

10 light guiding means for guiding the beam to the photo-sensor; and

control means for controlling an angle of each of the optical-path switching elements based on a detection signal obtained through the photo-sensor.

2. (Previously Presented) The optical switch according to Claim 1, wherein each of the optical-path switching elements includes a galvanometer mirror.

3. (Currently Amended) The optical switch according to Claim [[1]] 6, wherein the light guiding means is adapted to guide a light beam transmitted through at least one of the optical-path switching elements to the photo-sensor.

4. (Currently Amended) The optical switch according to Claim [[3]] 1, wherein the light guiding means is adapted to guide a light beam transmitted through at least one of the optical-path switching elements to the photo-sensor, and the  
5 light guiding means is adapted to split the light beam transmitted through at least one of the optical-path switching elements using a beam splitter and then to guide a beam split from the light beam to the photo-sensor.

5. (Currently Amended) ~~The~~ An optical switch ~~according to Claim 3, wherein the~~ comprising:

optical-path switching elements for switching one optical path to another optical path to allow one light beam for optical  
5 communication emitted from one of at least one input optical fiber used for inputting beams, to be incident on one of at least one output optical fiber from which beams are outputted;

light guiding means ~~includes the photo-sensor, which comprises (i)~~ for guiding a light beam transmitted through at  
10 least one of the optical-path switching elements, the light guiding means comprising a base having a hole through which the light beam being transmitted through at least one of the optical-path switching elements passes, ~~and (ii) at least two light receiving elements~~

15        a photo-sensor, which comprises a plurality of photo-sensor  
sections which are disposed around the hole in the base; and  
      control means for controlling an angle of each of the  
optical-path switching elements based on a detection signal  
obtained through the photo-sensor.

6. (Currently Amended) ~~The~~ An optical switch ~~according to~~  
~~Claim 1,~~ comprising:

optical-path switching elements for switching one optical  
path to another optical path to allow one light beam for optical  
5    communication emitted from one of at least one input optical  
fiber used for inputting beams, to be incident on one of at least  
one output optical fiber from which beams are outputted;

a photo-sensor;  
      light guiding means for guiding the beam to the  
10   photo-sensor; and

control means for controlling an angle of each of the  
optical-path switching elements based on a detection signal  
obtained through the photo-sensor;

      wherein the light guiding means is adapted to partially  
15   split a light beam transmitted through the output optical fiber  
and to allow the photo-sensor to receive a beam split from the  
light beam.

7. (Currently Amended) The optical switch according to Claim 6, wherein the light guiding means comprises:

~~the output optical fiber for capturing a light beam  
transmitted through at least one of the optical-path switching  
elements,~~

a photocoupler which is disposed on an output terminal of the output optical fiber and which splits the beam into a beam for the photo-sensor and a beam for communication; and

a sensor fiber for guiding the split beam for the photo-sensor to the photo-sensor,

wherein each optical-path switching element is adapted to be oscillated when a driving signal with a predetermined frequency is supplied thereto.

8. (Previously Presented) The optical switch according to Claim 7, wherein each of the optical-path switching elements is adapted to be oscillated in two directions.

9. (Currently Amended) The optical switch according to Claim 8, wherein the driving signal comprises driving signals to be supplied to each of the optical-path switching elements, and the driving signals have different frequencies so that the optical-path switching elements are enabled to be oscillated in the two directions.

10. (Currently Amended) An optical switch comprising:

optical-path switching elements for switching at least one optical path to another optical path to allow one light beam for optical communication emitted from one of at least one input optical fiber used for inputting beams, to be incident on one of at least one output optical fiber from which beams are outputted;  
a photo-sensor which comprises a four-divided photodetector light receiving surface;

light guiding means for guiding the beam to the photo-sensor; and

control means for adjusting an angle of each of the optical-path switching elements based on a detection signal obtained through the photo-sensor to adjust at least one of a relative position and an angle of the beam.

11. (New) An optical switch comprising:

optical-path switching elements for switching one optical path to another optical path to allow one light beam for optical communication emitted from one of at least one input optical fiber used for inputting beams, to be incident on one of at least one output optical fiber from which beams are outputted;  
a photo-sensor;

light guiding means for guiding a light beam transmitted through at least one of the optical-path switching elements to the photo-sensor; and

control means for controlling an angle of each of the optical-path switching elements based on a detection signal obtained through the photo-sensor;

wherein the light guiding means is adapted to split the light beam transmitted through at least one of the optical-path switching elements using a hologram and then to guide a beam split from the light beam to the photo-sensor.

12. (New) An optical switch comprising:

optical-path switching elements for switching one optical path to another optical path to allow one light beam for optical communication emitted from one of at least one input optical fiber used for inputting beams, to be incident on one of at least one output optical fiber from which beams are outputted;

a photo-sensor;

light guiding means for guiding a light beam transmitted through at least one of the optical-path switching elements to the photo-sensor;

a lens through which the light beam transmitted through at least one of the optical-path switching elements is converged onto the output optical fiber; and

control means for controlling an angle of each of the  
15 optical-path switching elements based on a detection signal  
obtained through the photo-sensor;

wherein the light guiding means is adapted to split the  
light beam transmitted through at least one of the optical-path  
switching elements using a beam splitter and then to guide a beam  
20 split from the light beam to the photo-sensor, and wherein the  
beam splitter is provided in the lens.